1. Record Nr. UNISOBSOB021964

Titolo	Restoration Literature : Critical Approaches / Ed. Harold Love
Pubbl/distr/stampa	London, : Methuen & Co Ltd, 1972
Titolo uniforme	Restoration [...]
Descrizione fisica	XII, 322 p. ; 22 cm
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

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Autore	Arora Ashish
Titolo	EV Batteries, Chargers, and Subsystems
Pubbl/distr/stampa	Norwood : , : Artech House, , 2025 ©2025
ISBN	1-68569-052-1 9781685690526
Edizione	[1st ed.]
Descrizione fisica	1 online resource (285 pages)
Altri autori (Persone)	MenachoRita Garrido
Disciplina	629.229
Soggetti	Electric vehicles
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	EV BATTERIES, CHARGERS,AND SUBSYSTEMS -- Contents -- Preface -- 1 Introduction -- 1.1Li-ion Batteries -- 1.2 Chargers -- 1.3Motors -- 1.4Power Converters -- 1.5 Advanced Driver Assistance Systems -- 1.6Standards and Regulations -- References -- 2 Lithium-Ion Cells -- 2.1Li-Ion Cell Operation -- 2.2Cell Types -- 2.2.1Prismatic Cells -- 2.2.2Cylindrical Cells -- 2.2.3Pouch Cells -- 2.3Li-Ion Cell Manufacturing Process --

2.3.1Electrode Manufacturing -- 2.3.2Cell Assembly -- 2.3.3Cell Finishing -- 2.4Cell Cycle Life and End-of-Life Consideration -- 2.4.1Cycle Life -- 2.4.2Calendar Aging -- 2.4.3End of Life -- 2.5Thermal Runaway in Li-Ion Cells -- 2.6 Other Power Sources -- 2.6.1Fuel Cells -- 2.6.2Solid-State Batteries -- 2.7Li-Ion Cell Abuse Testing

Sommario/riassunto

This book provides a comprehensive exploration of electric vehicle (EV) technology, focusing on lithium-ion batteries, chargers, and subsystems that form the core of modern EVs. It offers detailed insights into the operation, design, and manufacturing processes of Li-ion cells, as well as their applications in EVs. The book discusses battery thermal management, functional safety requirements, state-of-charge algorithms, and recycling considerations. It also examines charger types, motor technologies, and power converters essential for EV functionality. Advanced driver assistance systems (ADAS) and industry standards and regulations related to EVs are thoroughly addressed. Written for engineers, researchers, and professionals in power engineering and EV technology, the book aims to enhance understanding of the components and systems driving the transition to sustainable transportation.